

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled).

1 2. (Previously Presented) The jaw implant according to claim 17, wherein the
2 interface between the implant body and the implant top portion is planar and
3 oriented at a right angle to the longitudinal axis of the implant body.

1 3. (Previously Presented) The jaw implant according to claim 17, wherein the
2 interface between the implant body and the implant top has a profile adapted
3 to a cone-shaped cross-section of the jaw.

1 4. (Previously Presented) The jaw implant according to claim 3, wherein the
2 profile is inclined toward a buccal side and a lingual side of the jaw.

1 5. (Previously Presented) The jaw implant according to claim 3, wherein the
2 profile toward the buccal side and the lingual side is rounded, conforming to
3 the shape of the cross section of the jaw.

1 6. (Previously Presented) The jaw implant according to claim 3, wherein the
2 profile toward the buccal side and the lingual side has a bell shape
3 approximating the shape of the cross section of the jaw.

1 7. (Previously Presented) The jaw implant according to claim 3, wherein the
2 implant top portion is elastically deformable in the interface area under
3 pressure of the connecting screw, when the connecting screw is tightened.

1 8. (Previously Presented) The jaw implant according to claim 7, wherein the
2 implant top portion has a profile which is adapted by elastic deformation in
3 the interface area to the profile of the implant body under the pressure of the
4 connecting screw when the connecting screw is tightened.

9. (Canceled).

1 10. (Previously Presented) A jaw implant having an implant body and an implant
2 top portion which is attached to the implant body at an interface area by a
3 screw and serves as a carrier for a dental prosthesis and has a borehole
4 comprising: a through-borehole for the connecting screw and a recess
5 forming a supporting area for the screw head,
6 wherein the supporting area is designed as a truncated cone
7 surrounding the through-borehole, the connecting screw comprises, at the
8 underside of the screw head, a female taper being adapted to the truncated
9 cone of the implant top portion, the female taper and the truncated cone
10 being brought into close contact with each other by pressure generated by
11 the screw when the screw is tightened, whereby the truncated cone and the
12 female taper cause a centering of the implant top portion on the implant body
13 without exerting pressure in the direction of the periphery of the implant top
14 portion so that a widening of the circumference of the implant top portion is
15 prevented and wherein the interface area between the implant body and the
16 implant top portion has a profile adapted to a cone-shaped cross-section of
17 the jaw, the implant top portion is elastically deformable in the interface area
18 under pressure of the connecting screw, when the connecting screw is
19 tightened and a groove is arranged in a recess in the implant top portion and
20 has a ring shape around the truncated cone to increase the elastic
21 deformability of the implant top portion in the interface area.

- 1 11. (Previously Presented) The jaw implant according to claim 10, wherein the
2 ring groove has a profile on which one flank is formed by the conical surface
3 of the truncated cone.
- 1 12. (Previously Presented) The jaw implant according to claim 8 , wherein
2 inclined faces on the buccal side and on the lingual side in the interface area
3 of the implant body form a first angle (α) which is larger than a second angle
4 (α') between corresponding inclined surfaces on the buccal side and on the
5 lingual side in the interface area of the implant top portion; and the difference
6 between the first and second angles (α and α') is such that it is within the
7 elastic deformability range of the implant top portion where the first angle (α)
8 increases under the pressure of the connecting screw and is adapted to the
9 second angle (α') when the connecting screw is tightened.
- 1 13. (Previously Presented) The jaw implant according to claim 8, comprising
2 rounded surfaces on the buccal side and the lingual side which have smaller
3 radii of curvature in the interface area of the implant top portion than
4 corresponding rounded surfaces on the buccal side and on the lingual side in
5 the interface area of the implant body; and wherein the difference in
6 curvature is such that it is within the elastic deformability range of the implant
7 top portion, where the curvature in the interface area of the implant top
8 increases under the pressure of the connecting screw and is adapted to the
9 curvature in the interface area of the implant body when the connecting
10 screw is tightened.
- 1 14. (Previously Presented) The jaw implant according to claim 13, wherein the
2 rounded surfaces in the interface area of the implant top portion and the
3 rounded surfaces in the interface area of the implant body are circular.

1 15. (Previously Presented) The jaw implant according to claim 8, comprising an
2 approximately bell-shaped profile in the interface area of the implant top
3 portion having smaller radii of curvature in a concave part than an
4 approximately bell-shaped profile in the interface area of the implant body in
5 a corresponding convex part; and wherein the difference in curvature is
6 adjusted in its dimension such that it is within the elastic deformability range
7 of the implant top portion, where the curvature in the interface area of the
8 implant top portion increases under the pressure of the connecting screw and
9 is adapted to the curvature in the interface area of the implant body when the
10 connecting screw is tightened.

1 16. (Previously Presented) The jaw implant according to claim 15, wherein the
2 concave part in the interface area of the implant top portion and the convex
3 part in the interface area of the implant body are circular.

1 17. (Currently Amended) A jaw implant comprising:
2 an implant body ~~having a longitudinal axis~~;
3 a top portion having a through-borehole, a first end that mates with the
4 implant body at an interface, and, at a second opposing end, a cylindrical recess
5 arranged coaxially with the through-borehole, the bottom of the cylindrical recess
6 being formed as a raised truncated cone with a surface surrounding the through-
7 borehole and a cone base facing towards the first end; and
8 a connecting screw that passes through the through-borehole and
9 engages a threaded borehole in the implant body in order to attach the top
10 portion to the implant body, wherein the connecting screw has a head, the
11 underside of which has a conical recess with a surface ~~in the form of a negative~~
12 ~~cone with a cone base~~ having a widest part facing toward the first end implant
13 body when the connecting screw is in place, the recess surface being parallel to
14 and engaging the truncated cone surface to generate a concentric compressive
15 pressure in the ~~direction of the longitudinal axis~~ truncated cone when the

16 connecting screw is tightened without exerting pressure on a circumference of
17 the top portion.